

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: UTC-03042

Serial No.: 08/956,518

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use Several Sheets If Necessary)

Applicant: Sherry Leonard *et al.*

(37 CFR § 1.98(b))

Filing Date: 10/23/97

Group Art Unit: 1645-1647

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
PCH	1	5,589,466	12/31/96	Felgner <i>et al.</i>			1/26/95
	2	5,580,859	12/3/96	Felgner <i>et al.</i>			3/18/94
	3	5,459,127	10/17/95	Felgner <i>et al.</i>			9/16/93
	4	5,399,346	3/21/95	Anderson <i>et al.</i>			3/30/94
	5	5,322,770	6/21/94	Gelfand			12/22/89
	6	5,124,263	6/23/92	Temin <i>et al.</i>			1/12/89
	7	4,980,289	12/25/90	Temin <i>et al.</i>			4/27/87
	8	4,965,188	10/23/90	Mullis <i>et al.</i>			6/17/87
	9	4,946,778	8/7/90	Ladner <i>et al.</i>			1/19/89
	10	4,861,719	8/29/89	Miller			4/25/86
	11	4,683,202	7/28/87	Mullis			10/25/85
	12	4,683,195	7/28/87	Mullis <i>et al.</i>			2/7/86
	13	4,650,764	3/17/87	Temin <i>et al.</i>			3/26/84

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
PCH	14	WO 96/25508	8/22/96	WIPO France				
	15	WO 96/17823	6/13/96	France				
	16	WO 95/21931	8/17/95	France				
	17	WO 95/18863	7/13/95	France				
	18	WO 96/15244	5/23/96	United States				
	19	WO 95/07358	3/16/95	United States				
	20	WO 95/02697	1/26/95	France				
	21	WO 94/26914	11/24/94	France				
	22	WO 94/21807	9/29/94	Great Britain				
	23	WO 93/03367	2/18/93	United States				
	24	WO 92/05263	4/2/92	Great Britain				
	25	WO 90/02806	3/22/90	United States				
	26	WO 90/13678	11/15/90	United States				
	27	WO 89/07150	8/10/89	United States				
	28	EP 0453243A2	10/23/91	European Patent Office				
	29	EP 0178220 B1	4/16/86	European Patent Office				

Examiner:

PCH

Date Considered:

5/19/04

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: UTC-03042	Serial No.: 08/956,518
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Sherry Leonard <i>et al.</i>	
				Filing Date: 10/23/97	Group Art Unit: <u>1645/1647</u>
(37 CFR § 1.98(b))					
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
30	Adler <i>et al.</i> , "Normalization by Nicotine of Deficient Auditory Sensory Gating in the Relatives of Schizophrenics," <i>Biol. Psych.</i> 32: 607-616 (1992);				
31	Adler <i>et al.</i> , "Normalization of Auditory Physiology by Cigarette Smoking in Schizophrenic Patients," <i>Am. J. Psychol.</i> 150: 1856-1861 (1993);				
32	Adler <i>et al.</i> , "Neurophysiological Studies of Sensory Gating in Rats: Effects of Amphetamine, Phencyclidine, and Haloperidol," <i>Biol. Psychiat.</i> 21: 787-798 (1986);				
33	Adler <i>et al.</i> , "Neurophysiological Evidence for a Defect in Neuronal Mechanisms Involved in Sensory Gating in Schizophrenia," <i>Biol. Psychiat.</i> 17: 639-654 (1982);				
34	Albertsen <i>et al.</i> , "Construction and characterization of a yeast artificial chromosome library containing seven haploid human genome equivalents," <i>Proc. Natl. Acad. Sci.</i> 87: 4256-4260 (1990);				
35	Alkondon and Albuquerque, "Diversity of Nicotinic Acetylcholine Receptors in Rat Hippocampal Neurons. I. Pharmacological and Functional Evidence for Distinct Structural Subtypes," <i>J. Pharm. Ex. Ther.</i> 265: 1455-1473 (1993);				
36	Amar <i>et al.</i> , "Agonist pharmacology of the neuronal $\alpha 7$ nicotinic receptor expressed in <i>Xenopus</i> oocytes," <i>FEBS</i> 327: 284-288 (1993);				
37	Anderson and Young, "Quantitative Filter Hybridization," in <i>Nucleic Acid Hybridization A Practical Approach</i> , Hames and Higgins (eds.), pp. 73-109, IRL Press (1985);				
38	Barnes, "PCR Amplification of up to 35-kb DNA with high fidelity and high yield from λ bacteriophage templates," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91: 2216-2220 (1994);				
39	Beard <i>et al.</i> , "Transcription Mapping of Mouse Adenovirus Type 1 Early Region 3," <i>Virology</i> , pp. 75-81 (1990);				
40	Beeson <i>et al.</i> , "The human muscle nicotinic acetylcholine receptor α -subunit exists as two isoforms: a novel exon," <i>EMBO J.</i> 9: 2101-2106 (1990);				
41	Bender <i>et al.</i> , "Evidence that the Packaging Signal of Moloney Murine Leukemia Virus Extends into the gag Region," <i>J. Virol.</i> 61: 1639-1646 (1987);				
42	Bernstein <i>et al.</i> , "Gene Transfer with Retrovirus Vectors," <i>Genet. Eng.</i> 7: 235-261 (1985);				
43	Bessis <i>et al.</i> , "Negative regulatory elements upstream of a novel exon of the neuronal nicotinic acetylcholine receptor of $\alpha 2$ subunit gene," <i>Nucl. Acids Res.</i> 21: 2185-2192 (1993);				
44	Bickford-Wimer <i>et al.</i> , "Auditory Sensory Gating in Hippocampal Neurons: A Model System in the Rat," <i>Biol. Psychiat.</i> 27: 183-192 (1990);				
45	Bickford and Wear, "Restoration of sensory gating of auditory evoked response by nicotine in fimbria-formix lesioned rats," <i>Brain Res.</i> 705: 235-240 (1995);				
46	Biedler <i>et al.</i> , "Multiple Neurotransmitter Synthesis by Human Neuroblastoma Cell Lines and Clones," <i>Cancer Res.</i> 38: 3751-3757 (1978);				
47	Blount and Merlie, "Mutational Analysis of Muscle Nicotinic Acetylcholine Receptor Subunit Assembly," <i>J. Cell Biol.</i> 111: 2613-2622 (1990);				
48	Boshart <i>et al.</i> , "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," <i>Cell</i> 41:521-530 (1985);				
49	Boutros and Overall, "Replication and Extension of P50 Findings in Schizophrenia," <i>Clin. Electroencephalog.</i> 22: 40-45 (1991);				
50	Braff <i>et al.</i> , "Gating and Habituation of the Startle Reflex in Schizophrenic Patients," <i>Arch. Gen. Psychiat.</i> 49: 206-215 (1992);				
51	Breier <i>et al.</i> , "National Institute of Mental Health Longitudinal Study of Chronic Schizophrenia, Prognosis and Predictors of Outcome," <i>Arch. Gen. Psychiat.</i> , 48: 239-246 (1991);				
52	Brownstein <i>et al.</i> , "Isolation of Single-Copy Human Genes from a Library of Yeast Artificial Chromosome Clones," <i>Science</i> 244: 1348-1351 (1989);				
53	Burke <i>et al.</i> , "Cloning of Large Segments of Exogenous DNA into Yeast by Means of Artificial Chromosome Vectors," <i>Science</i> 236: 806-812 (1987);				
54	Calzolari <i>et al.</i> , "Psychiatric Disorder in a Familial 15;18 Translocation and Sublocalization of Myelin Basic Protein to 18q22.3," <i>Am. J. Med. Genet.</i> 67: 154-161 (1996);				
Examiner:	<u>PI/ayer</u>	Date Considered:	<u>5/19/04</u>		
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

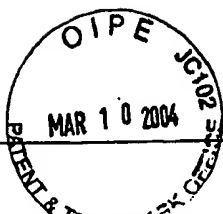
FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: UTC-03042	Serial No.: 08/956,518
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary) (37 CFR § 1.98(b))				Applicant: Sherry Leonard <i>et al.</i>	
				Filing Date: 10/23/97	Group Art Unit: 1645/1647
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
55	RCH	Cameron <i>et al.</i> , "Dendritic Cells Exposed to Human Immunodeficiency Virus Type-1 Transmit a Vigorous Cytopathic Infection to CD4 ⁺ T Cells," <i>Science</i> 257: 383-387 (1992);			
56		Casabon <i>et al.</i> , "The Gene Responsible for a Severe Form of Peripheral Neuropathy and Agenesis of the Corpus Callosum Maps to Chromosome 15q," <i>Am. J. Hum. Genet.</i> 58: 28-34 (1996);			
57		Chamberlin <i>et al.</i> , "New RNA Polymerase from <i>Escherichia coli</i> infected with Bacteriophage T7," <i>Nature</i> 228:227-231 (1970);			
58		Chomczynski and Sacchi, "Single-Step Method of RNA Isolation by Acid Guanidinium Thiocyanate-Phenol-Chloroform Extraction," <i>Anal. Biochem.</i> 162: 156-159 (1987);			
59		Chumakov <i>et al.</i> , "Continuum of overlapping clones spanning the entire human chromosome 21q," <i>Nature</i> 359: 380-386 (1992);			
60		Clarke, "Prader-Willi Syndrome and Psychoses," <i>Brit. J. Psychiat.</i> 163: 680-684 (1993);			
61		Cole <i>et al.</i> , "The EBV-Hybridoma Technique and its Application to Human Lung Cancer," in <i>Monoclonal Antibodies and Cancer Therapy</i> , Reisfeld <i>et al.</i> (eds.), pp. 77-96, Alan R. Liss, Inc. (1985);			
62		Conti-Tronconi <i>et al.</i> , "Brain and muscle nicotinic acetylcholine receptors are different but homologous proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 82: 5208-5212 (1985);			
63		Coon <i>et al.</i> , "Search for Mutations in the $\beta 1$ GABA _A Receptor Subunit Gene in Patients with Schizophrenia," <i>Am. J. Med. Genet.</i> 54: 12-20 (1994);			
64		Coon <i>et al.</i> , "Use of a Neurophysiological Trait in Linkage Analysis of Schizophrenia," <i>Biol. Psychiat.</i> 34: 277-289 (1993);			
65		Cooper <i>et al.</i> , "Pentameric structure and subunit stoichiometry of a neuronal nicotinic acetylcholine receptor," <i>Nature</i> 350: 235-238 (1991);			
66		Cote <i>et al.</i> , "Generation of human monoclonal antibodies reactive with cellular antigens," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 80: 2026-2030 (1983);			
67		Couturier <i>et al.</i> , "A Neuronal Nicotinic Acetylcholine Receptor Subunit ($\alpha 7$) Is Developmentally Regulated and Forms a Homo-Oligomeric Channel Blocked by α -BTX," <i>Neuron</i> 5: 847-856 (1990);			
68		Cullum <i>et al.</i> , "Neurophysiological and neuropsychological evidence for attentional dysfunction in schizophrenia," <i>Schizophrenia Res.</i> 10: 131-141 (1993);			
69		Curiel <i>et al.</i> , "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-Polylysine Complexes," <i>Hum. Gene Ther.</i> 3: 147-154 (1992);			
70		De Amicis <i>et al.</i> , "Reaction Time Crossover as a Marker of Schizophrenia and of Higher Functioning," <i>J. Nerv. Ment. Dis.</i> 174: 177-179 (1986);			
71		deLeon <i>et al.</i> , "Schizophrenia and Smoking: An Epidemiological Survey in a State Hospital," <i>Am. J. Psychiat.</i> 152: 453-455 (1995);			
72		Den-Dunnen <i>et al.</i> , "Topography of the Duchenne Muscular Dystrophy (DMD) Gene: FIGE and cDNA Analysis of 194 Cases Reveals 115 Deletions and 13 Duplications," <i>Am. J. Hum. Genet.</i> 45: 835-847 (1989);			
73		Deneris <i>et al.</i> , "Genes Encoding Neuronal Nicotinic Acetylcholine Receptors," <i>Clin. Chem.</i> 35: 731-737 (1989);			
74		Dijkema <i>et al.</i> , "Cloning and expression of the chromosomal immune interferon gene of the rat," <i>EMBO J.</i> 4:761-767 [1985];			
75		Dominguez del Toro <i>et al.</i> , "Immunocytochemical Localization of the $\alpha 7$ Subunit of the Nicotinic Acetylcholine Receptor in the Rat Central Nervous System," <i>J. Comp. Neurol.</i> 349: 325-342 (1994);			
	no copy provided	Dracopoli <i>et al.</i>, <i>Current Protocols in Human Genetics</i>, John Wiley & Sons, Inc., New York, New York (1994) (Will provide Title and Copyright pages at a later date should the Examiner desire a copy);			
77	RCH	Eaton, "Epidemiology of Schizophrenia," <i>Epidemiol. Rev.</i> 7: 105-126 (1985);			
78		Elgoyhen <i>et al.</i> , " $\alpha 9$: An Acetylcholine Receptor with Novel Pharmacological Properties Expressed in Rat Cochlear Hair Cells," <i>Cell</i> 79: 705-715 (1994);			
79	no copy	Erlach (ed.), <i>PCR Technology</i>, Stockton Press (1989);			
80	RCH	Endicott and Spitzer, "A Diagnostic Interview, The Schedule for Affective Disorders and Schizophrenia," <i>Arch. Gen. Psychiat.</i> 35: 837-844 (1978);			
81		Erwin <i>et al.</i> , "Midlatency Auditory Evoked Responses in Schizophrenia," <i>Biol. Psychiat.</i> 30: 430-442 (1991);			
Examiner: <i>P. J. Ryan</i>		Date Considered: 5/19/04			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: UTC-03042	Serial No.: 08/956,518
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Sherry Leonard <i>et al.</i>	
				Filing Date: 10/23/97	Group Art Unit: 1645-1647
(37 CFR § 1.98(b))					
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
RCW	82	Felgner and Ringold, "Cationic liposome-mediated transfection," <i>Nature</i> 337: 387-388 (1989);			
	83	Felgner <i>et al.</i> , "Lipofection: A highly efficient, lipid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 84: 7413-7417 (1987);			
	84	Freedman <i>et al.</i> , "α-Bungarotoxin Binding to Hippocampal Interneurons: Immunocytochemical Characterization and Effects on Growth Factor Expression," <i>J. Neurosci.</i> 13: 1965-1975 (1993);			
	85	Freedman <i>et al.</i> , "Elementary neuronal dysfunctions in schizophrenia," <i>Schiz. Res.</i> 4: 233-243 (1991);			
	86	Freedman <i>et al.</i> , "Schizophrenia and Nicotinic Receptors," <i>Harvard Rev. Psychiat.</i> 2: 179-192 (1994);			
	87	Freedman <i>et al.</i> , "Evidence in Postmortem Brain Tissue for Decreased Numbers in Hippocampal Nicotinic Receptors in Schizophrenia," <i>Biol. Psychiat.</i> 38: 22-33 (1995);			
no copy provided	88	Frohman, Amplifications 5: 11 (1990); Reference could not obtained at this time. Will provide reference at a later date should the Examiner desire a copy.			
RCW	89	Galzi <i>et al.</i> , "Functional Architecture of the Nicotinic Acetylcholine Receptor: From Electric Organ to Brain," <i>Ann. Rev. Pharmacol.</i> 31: 37-72 (1991);			
	90	Goff <i>et al.</i> , "Cigarette Smoking in Schizophrenia: Relationship to Psychopathology and Medication Side Effects," <i>Am. J. Psychiat.</i> 149: 1189-1194 (1992);			
	91	Goff <i>et al.</i> , "Neural Origins of Long Latency Evoked Potentials Recorded from the Depth and from the Cortical Surface of the Brain in Man," <i>Prog. Clin. Neurophysiol.</i> 7: 126-145 (1980);			
	92	Goldman <i>et al.</i> , "Members of a Nicotinic Acetylcholine Receptor Gene Family Are Expressed in Different Regions of the Mammalian Central Nervous System," <i>Cell</i> 48: 965-973 (1987);			
	93	Gorman <i>et al.</i> , "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," <i>Proc. Natl. Acad. Sci. USA</i> 79: 6777-6781 [1982];			
	94	Graham and van der Eb, "A New Technique for the Assay of Infectivity of Human Adenovirus 5 DNA," <i>Virology</i> 52: 456-467 [1973];			
	95	Green, "Biochemical Mechanisms of Constitutive and Regulated Pre-mRNA Splicing," <i>Ann. Rev. Cell. Biol.</i> 7: 559-599 (1991);			
	96	Griffith <i>et al.</i> , "Effects of sound intensity on a midlatency evoked response to repeated auditory stimuli in schizophrenic and normal subjects," <i>Psychophysiology</i> 32: 460-466 (1995);			
	97	Hamera <i>et al.</i> , "Alcohol, Cannabis, Nicotine, and Caffeine Use and Symptom Distress in Schizophrenia," <i>J. Nerv. Mental Dis.</i> 183: 559-565 (1995);			
no copy provided	98	Marlow and Lane, <i>Antibodies: A Laboratory Manual</i>, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York;			
RCW	99	Hershman <i>et al.</i> , "GABA _B antagonists diminish the inhibitory gating of auditory response in the rat hippocampus," <i>Neurosci. Lett.</i> 190: 133-136 (1995);			
	100	Holzman <i>et al.</i> , "A Single Dominant Gene Can Account for Eye Tracking Dysfunctions and Schizophrenia in Offspring of Discordant Twins," <i>Arch. Gen. Psychiat.</i> 45: 641-647 (1988);			
	101	Hu and Worton, "Partial Gene Duplication as a Cause of Human Disease," <i>Hum. Mutat.</i> 1: 3-12 (1992);			
	102	Huse <i>et al.</i> , "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science</i> 246: 1275-1281 (1989);			
	103	Hyman, "Schizophrenia," in <i>Scientific American Medicine</i> , 13 VII: 1-5, Dale and Federman (eds.), New York, New York (1994);			
	104	Judd <i>et al.</i> , "Sensory Gating Deficits in Schizophrenia: New Results," <i>Am. J. Psychiat.</i> 149: 488-493 (1992);			
	105	Kacian <i>et al.</i> , "A Replicating RNA Molecule Suitable for a Detailed Analysis of Extracellular Evolution and Replication," <i>Proc. Natl. Acad. Sci. USA</i> 69: 3038-3042 [1972];			
	106	Kaplit <i>et al.</i> , "Expression of a Functional Foreign Gene in Adult Mammalian Brain following <i>in Vivo</i> Transfer via a Herpes Simplex Virus Type 1 Defective Viral Vector," <i>Mol. Cell. Neurosci.</i> 2: 320-330 (1991);			
	107	Kim <i>et al.</i> , "Use of the human elongation factor 1α promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223 [1990];			
	108	Kohler and Milstein, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256: 495-497 [1975];			
Examiner:	P. Vayer			Date Considered:	5/19/04
EXAMINER:	Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: UTC-03042	Serial No.: 08/956,518
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Sherry Leonard <i>et al.</i>	
				Filing Date: 10/23/97	Group Art Unit: 1645 1647
(37 CFR § 1.98(b))					
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
PCW	109	Kozbor <i>et al.</i> , "The production of monoclonal antibodies from human lymphocytes," <i>Immun. Today</i> 4: 72-79 (1983);			
	110	Kruglyak <i>et al.</i> , "Parametric and Nonparametric Linkage Analysis: A Unified Multipoint Approach," <i>Am. J. Hum. Genet.</i> 58: 1347-1363 (1996);			
	111	Kuo <i>et al.</i> , "Efficient Gene Transfer Into Primary Murine Lymphocytes Obviating the Need for Drug Selection," <i>Blood</i> 82: 845-852 (1993);			
	112	Lamond, "The Spliceosome," <i>BioEssays</i> 15: 595-603 (1993);			
	113	La Salle <i>et al.</i> , "An Adenovirus Vector for Gene Transfer into Neurons and Glia in the Brain," <i>Science</i> 259: 988-990 (1993);			
	114	Lathrop <i>et al.</i> , "Strategies for multilocus linkage analysis in humans," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 81: 3443-3446 (1984);			
	115	Lebkowski <i>et al.</i> , "Adeno-Associated Virus: a Vector System for Efficient Introduction and Integration of DNA into a Variety of Mammalian Cell Types," <i>Mol. Cell. Biol.</i> 8: 3988-3996 (1988);			
	116	Lehrman <i>et al.</i> , "Duplication of Seven Exons in LDL Receptor Gene Caused by Alu-Alu Recombination in a Subject with Familial Hypercholesterolemia," <i>Cell</i> 48: 827-835 (1987);			
	117	Lindstrom <i>et al.</i> , "Neuronal Nicotinic Receptor Subtypes," <i>Ann. NY Acad. Sci.</i> 757: 100-116 (1996);			
	118	Lukas and Bencherif, "Heterogeneity and Regulation of Nicotinic Acetylcholine Receptors," <i>Int. Rev. Neurobiol.</i> 34: 25-131 (1992);			
	119	Luntz-Leyman <i>et al.</i> , "Cholinergic gating of response to auditory stimuli in rat hippocampus," <i>Brain. Res.</i> 587: 130-136 (1992);			
	120	Machy <i>et al.</i> , "Gene transfer from targeted liposomes to specific lymphoid cells by electroporation," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 85: 8027-8031 (1988);			
	121	Mäkelä <i>et al.</i> , "Whole-head mapping of middle-latency auditory evoked magnetic fields," <i>Electroencephalogr. Clin. Neurophysiol.</i> 92: 414-421 (1994);			
	122	Maniatis <i>et al.</i> , "Regulation of Inducible and Tissue-Specific Gene Expression," <i>Science</i> 236: 1237-1244 (1987);			
	123	Mann <i>et al.</i> , "Construction of a Retrovirus Packaging Mutant and Its Use to Produce Helper-Free Defective Retrovirus," <i>Cell</i> 33: 153-159 (1983);			
	124	Markowitz <i>et al.</i> , "A Safe Packaging Line for Gene Transfer: Separating Viral Genes on Two Different Plasmids," <i>J. Virol.</i> 62: 1120-1124 (1988);			
	125	Marks and Collins, "Characterization of Nicotine Binding in Mouse Brain and Comparison with the Binding of α -Bungarotoxin and Quinuclidinyl Benzilate," <i>Mol. Pharmacol.</i> 22: 554 (1982);			
	126	Marks <i>et al.</i> , "Nicotinic Binding Sites in Rat and Mouse Brain: Comparison of Acetylcholine, Nicotine, and α -Bungarotoxin," <i>Mol. Pharmacol.</i> 30: 427-437 (1986);			
	127	Matter-Sadzinski <i>et al.</i> , "Neuronal specificity of the $\alpha 7$ nicotinic acetylcholine receptor promoter develops during morphogenesis of the central nervous system," <i>EMBO J.</i> 11: 4529-4538 (1992);			
	128	Maue <i>et al.</i> , "Neuron-Specific Expression of the Rat Brain Type II Sodium Channel Gene Is Directed by Upstream Regulatory Elements," <i>Neuron</i> 4: 223-231 (1990);			
	129	Melissari <i>et al.</i> , "Mitral valve prolapse in a case of Marfan syndrome with congenital cardiac disease, chronic obstructive pulmonary disease and schizophrenia," <i>Pathologica</i> 87: 78-81 (1995);			
PCW	130	Miller <i>et al.</i> , "A simple salting out procedure for extracting DNA from human nucleated cells," <i>Nucl. Acids Res.</i> 16: 1215 (1988);			
	131	Miller and Rosman, "Improved Retroviral Vectors for Gene Transfer and Expression," <i>BioTechniques</i> 7: 980-990 (1992);			
	132	Miller and Freeman, "The Activity of Hippocampal Interneurons and Pyramidal Cells During The Response of the Hippocampus to Repeated Auditory Stimuli," <i>Neurosci.</i> 69: 371-381 (1995);			
PCW	133	Mizushima and Nagata, "pEF-BOS, a powerful mammalian expression vector," <i>Nucl. Acids. Res.</i> 18:5322 (1990);			
	134	Nagamoto <i>et al.</i> , "Sensory Gating in Schizophrenics and Normal Controls: Effects of Changing Stimulation Interval," <i>Biol. Psychiat.</i> 25: 549-561 (1989);			
	135	Nagamoto <i>et al.</i> , "Gating of Auditory P50 in Schizophrenics: Unique Effects of Clozapine," <i>Biol. Psychiat.</i> 40: 181-188 (1996);			
Examiner: <i>P. Hayer</i>		Date Considered: 5/19/04			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: UTC-03042	Serial No.: 08/956,518
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets if Necessary)				Applicant: Sherry Leonard <i>et al.</i>	
				Filing Date: 10/23/97	Group Art Unit: 1645-1647
(37 CFR § 1.98(b))					
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
PCW	136	Newland <i>et al.</i> , "Functional and non-functional isoforms of the human muscle acetylcholine receptor," <i>J. Physiol.</i> 489: 767-778 (1995);			
	137	Nielsen <i>et al.</i> , "Peptide nucleic acids (PNAs): Potential anti-sense and anti-gene agents," <i>Anticancer Drug Des.</i> 8:53-63 (1993);			
	138	Orr-Urtreger <i>et al.</i> , "Cloning and Mapping of the Mouse $\alpha 7$ -Neuronal Nicotinic Acetylcholine Receptor," <i>Genomics</i> 26: 399-402 (1995);			
no copy	139	Ott, <i>Analysis of Human Genetic Linkage</i>, Johns Hopkins University Press, Baltimore (1991);			
PCW	140	Ott, "Computer-simulation methods in human linkage analysis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 86: 4175-2178 (1989);			
	141	Patrick <i>et al.</i> , "Molecular Biology of Nicotinic Acetylcholine Receptors," <i>Ann. NY Acad. Sci.</i> 505: 194 (1987);			
	142	Pauly <i>et al.</i> , "Glucocorticoid Regulation of Sensitivity to Nicotine," in <i>The Biology of Nicotine: Current Research Issues</i> , Lippello <i>et al.</i> (eds.), pp. 121-139, Raven Press, New York (1992);			
	143	Peng <i>et al.</i> , "Human $\alpha 7$ Acetylcholine Receptor: Cloning of the $\alpha 7$ Subunit from the SH-SY5Y Cell Line and Determination of Pharmacological Properties of Native Receptors and Functional $\alpha 7$ Homomers Expressed in <i>Xenopus</i> Oocytes," <i>Mol. Pharm.</i> 45: 546-554 (1994);			
	144	Pulver <i>et al.</i> , "Follow-Up of a Report of a Potential Linkage for Schizophrenia on Chromosome 22q12-q13.1: Part 2," <i>Am. J. Med. Genet.</i> 54: 44-50 (1994);			
	145	Research Disclosure 371005 (1995);			
	146	Risch, "Genetic Linkage and Complex Diseases, With Special Reference to Psychiatric Disorders," <i>Genet. Epidemiol.</i> 7: 3-16 (1990);			
PCW	147	Rollins <i>et al.</i> , "Cellular Localization of α -Bungarotoxin Binding and $\alpha 7$ mRNA in the Hippocampus Related to Auditory Gating in the Awake, Behaving Rat," <i>Soc. Neurosci. Abst.</i> 22: 1272 (1996);			
	148	Saksela <i>et al.</i> , "Human immunodeficiency virus type 1 mRNA expression in peripheral blood cells predicts disease progression independently of the numbers of CD4 ⁺ lymphocytes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 91: 1104-1108 (1994);			
	149	Saksela <i>et al.</i> , "High Viral Load in Lymph Nodes and Latent Human Immunodeficiency Virus (HIV) in Peripheral Blood Cells of HIV-1 Infected Chimpanzees," <i>J. Virol.</i> 67: 7423-7427 (1993);			
	150	Sambrook <i>et al.</i> , <i>Molecular Cloning: A Laboratory Manual</i> , 2nd ed., pp. 7.39-7.52, 9.31-9.58, 16.6-16.15, Cold Spring Laboratory Press, New York (1989);			
	151	Samulski <i>et al.</i> , "A Recombinant Plasmid from Which an Infectious Adeno-Associated Virus Genome Can Be Excised <i>In Vitro</i> and Its Use To Study Viral Replication," <i>J. Virol.</i> 61: 3096-3101 (1987);			
	152	Samulski <i>et al.</i> , "Helper-Free Stocks of Recombinant Adeno-Associated Viruses: Normal Integration Does Not Require Viral Gene Expression," <i>J. Virol.</i> 63: 3822-3828 (1989);			
	153	Sauerwald <i>et al.</i> , "The 5'-Flanking Region of the Synapsin I Gene," <i>J. Biol. Chem.</i> 265: 14932-14937 (1990);			
	154	Schmid, "Alu: Structure, Origin, Evolution, Significance and Function of One-Tenth of Human DNA," <i>Prog. Nucl. Acid Res.</i> 53: 283-319 (1996);			
	155	Schoepfer <i>et al.</i> , "Brain α -Bungarotoxin Binding Protein cDNAs and MAbs Reveal Subtypes of This Branch of the Ligand-Gated Ion Channel Gene Superfamily," <i>Neuron</i> 5: 35-48 (1990);			
	156	Séguéla <i>et al.</i> , "Molecular Cloning, Functional Properties, and Distribution of Rat Brain $\alpha 7$: A Nicotinic Cation Channel Highly Permeable to Calcium," <i>J. Neurosci.</i> 13: 596-604 (1993);			
	157	Sham <i>et al.</i> , "Segregation analysis of complex phenotypes: an application to schizophrenia and auditory P300 latency," <i>Psychiat. Genet.</i> 4: 29-38 (1994);			
	158	Siegel <i>et al.</i> , "Deficits in Sensory Gating in Schizophrenic Patients and Their Relatives, Evidence Obtained With Auditory Evoked Responses," <i>Arch. Gen. Psychiat.</i> 41: 607-612 (1984);			
	159	Silverman <i>et al.</i> , "Evidence of a Locus for Schizophrenia and Related Disorders on the Short Arm of Chromosome 5 in a Large Pedigree," <i>Am. J. Med. Genet.</i> 67: 162-171 (1996);			
	160	Sirota <i>et al.</i> , "Schizophrenia and Marfan Syndrome," <i>Br. J. Psychiat.</i> 157: 433-436 (1990);			
	161	Spitzer <i>et al.</i> , "Research Diagnostic Criteria, Rationale and Reliability," <i>Arch. Gen. Psychiat.</i> 35: 773-782 (1978);			
Examiner:	P. Hayes			Date Considered:	5/19/04
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No.: UTC-03042	Serial No.: 08/956,518
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use Several Sheets If Necessary)				Applicant: Sherry Leonard <i>et al.</i>	
(37 CFR § 1.98(b))				Filing Date: 10/23/97	Group Art Unit: 1645/1647
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)					
RCV	162	Stratford-Perricaudet <i>et al.</i> , "Widespread Long-term Gene Transfer to Mouse Skeletal Muscles and Heart," <i>J. Clin. Invest.</i> 90: 626-630 (1992);			
	163	Tsuang <i>et al.</i> , "Long-term Outcome of Major Psychoses I. Schizophrenia and Affective Disorders Compared with Psychiatrically Symptom-Free Surgical Conditions," <i>Arch. Gen. Psychiat.</i> 36: 1295-1301 (1979);			
	164	Tsuang <i>et al.</i> , "Genotypes, Phenotypes, and the Brain, A Search for Connections in Schizophrenia," <i>Brit. J. Psychiat.</i> 163: 299-307 (1993);			
	165	Uetsuki <i>et al.</i> , "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1 α ," <i>J. Biol. Chem.</i> 264:5791 [1989];			
	166	Ulmer <i>et al.</i> , "Heterologous Protection Against Influenza by Injection of DNA Encoding a Viral Protein," <i>Science</i> 259: 1745-1748 (1993);			
	167	Vinogradova <i>et al.</i> , "Do Semantic Priming Effects Correlate with Sensory Gating in Schizophrenia," <i>Biol. Psychiat.</i> 39: 821-824 (1996);			
	168	Vinogradova, in <i>The Hippocampus 2: Neurophysiology and Behavior</i> , Issacson and Pribram (eds.), pp. 3-69, Plenum Press, New York, New York (1975)			
	169	von Heijne, "A new method for predicting signal sequence cleavage sites," <i>Nuc. Acids Res.</i> 14: 4683-4690 (1986);			
	170	Voss <i>et al.</i> , "The role of enhancers in the regulation of cell-type-specific transcriptional control," <i>Trends Biochem. Sci.</i> 11:287-289 [1986];			
	171	Wada <i>et al.</i> , "Distribution of Alpha2, Alpha3, Alpha4, and Beta2 Neuronal Nicotinic Receptor Subunit mRNAs in the Central Nervous System: A Hybridization Histochemical Study in the Rat," <i>J. Compar. Neurol.</i> 284: 314-335 (1989);			
	172	Waldo <i>et al.</i> , "Codistribution of a Sensory Gating Deficit and Schizophrenia in Multi-affected Families," <i>Psychiat. Res.</i> 39: 257-268 (1991);			
	173	Waldo <i>et al.</i> , "Auditory sensory gating, hippocampal volume, and catecholamine metabolism in schizophrenics and their siblings," <i>Schizophr. Res.</i> 12: 93-106 (1991);			
	174	Wang <i>et al.</i> , "Evidence for a susceptibility locus for schizophrenia on chromosome 6pter-p22," <i>Nature Genet.</i> 10: 41-46 (1995);			
	175	Williams <i>et al.</i> , "Introduction of foreign genes into tissues of living mice by DNA-coated microprojectiles," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 88: 2726-2730 (1991);			
	176	Wilson <i>et al.</i> , "Habituation of Human Limbic Neuronal Response to Sensory Stimulation," <i>Exp. Neurol.</i> 84: 74-97 (1984);			
	177	Wilson <i>et al.</i> , "Hepatocyte-directed Gene Transfer in Vivo Leads to Transient Improvement of Hypercholesterolemia in Low Density Lipoprotein Receptor-deficient Rabbits," <i>J. Biol. Chem.</i> 267: 963-967 (1992);			
	178	Wonnacott, "α-Bungarotoxin Binds to Low-Affinity Nicotine Binding Sites in Rat Brain," <i>J. Neurochem.</i> 47: 1706-1712 (1986);			
	179	Wu and Wallace, "The Ligation Amplification Reaction (LAR) -- Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> 4:560-569 [1989];			
	180	Wu and Wu, "Receptor-mediated Gene Delivery and Expression in Vivo," <i>J. Biol. Chem.</i> 263: 14621-14624 (1988);			
	181	Wu and Wu, "Receptor-mediated <i>in Vitro</i> Gene Transformation by a Soluble DNA Carrier System," <i>J. Biol. Chem.</i> 262: 4429-4432 (1987);			
	182	Zhang <i>et al.</i> , "Neuronal Acetylcholine Receptors That Bind α-Bungarotoxin with High Affinity Function as Ligand-Gated Ion Channels," <i>Neuron</i> 12: 167-177 (1994).			
	183	Chini <i>et al.</i> , "Molecular Cloning and Chromosomal Localization of the Human α7-Nicotinic Receptor Subunit Gene (CHRNA7)," <i>Genomics</i> 19: 379-381 (1994);			
	184	Doucette-Stamm <i>et al.</i> , "Cloning and Sequence of the Human α7 Nicotinic Acetylcholine Receptor," <i>Drug Dev. Res.</i> 30: 252-256 (1993);			
↓	185	Garcia-Guzman <i>et al.</i> , "α-Bungarotoxin-sensitive Nicotinic Receptors on Bovine Chromaffin Cells: Molecular Cloning, Functional Expression and Alternative Splicing of the α7 Subunit," <i>Eur. J. Neurosci.</i> 7: 647-655 (1995);			
RCV	186	Anand and Lindstrom, "Nucleotide sequence of the human nicotinic acetylcholine receptor β2 subunit gene," <i>Nuc. Acids Res.</i> 18: 4272 (1990);			
↓	187	Deneris <i>et al.</i> , "Primary Structure and Expression of β2: A Novel Subunit of Neuronal Nicotinic Acetylcholine Receptors," <i>Neuron</i> 1: 45-54 (1988);			
	188	Fornasari <i>et al.</i> , "Structural and Functional Characterization of the Human α3 Nicotinic Subunit Gene Promoter," <i>Mol. Pharmacol.</i> 51: 250-261 (1997);			
↓	189	Fornasari <i>et al.</i> , "Molecular cloning of human neuronal nicotinic receptor α3-subunit," <i>Neurosci. Lett.</i> 111: 351-356 (1990);			
Examiner:		Date Considered: 5/19/04.			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

FORM PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No.: UTC-03042

Serial No.: 08/956,518

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use Several Sheets If Necessary)Applicant: Sherry Leonard *et al.*

Filing Date: 10/23/97

Group Art Unit: ~~1645~~ 1647

(37 CFR § 1.98(b))

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

190	Breese <i>et al.</i> , "Comparison of the Regional Expression of Nicotinic Acetylcholine Receptor $\alpha 7$ mRNA and [125 I]- α -bungarotoxin binding in Human Postmortem Brain," <i>J. Comp. Neurol.</i> 387: 385-398 (1997);
191	Leonard <i>et al.</i> , "Linkage of a chromosome 15 locus to a neurophysiological deficit in schizophrenia," <i>Am. J. Human Genet.</i> 59: A225 (1996);
192	Leonard <i>et al.</i> , "Genomic Structure of the Human $\alpha 7$ Neuronal Nicotinic Acetylcholine Receptor Subunit," <i>Abstracts, Society for Neuroscience</i> , 27th Annual Meeting, October 25-30 (1997);
193	Freedman <i>et al.</i> , "Linkage of a neurophysiological deficit in schizophrenia to a chromosome 15 locus," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 94: 587-592 (1997);
194	Logel <i>et al.</i> , "Expression of High and Low Affinity Neuronal Nicotinic Receptors in Tissues of Neural Crest Origin," <i>Abstracts, Society for Neuroscience</i> , 27th Annual Meeting, October 25-30 (1997);
195	Breese <i>et al.</i> , "Abnormal Regulation of High Affinity Nicotinic Receptor Binding in Schizophrenics," <i>Abstracts, Society for Neuroscience</i> , 27th Annual Meeting, October 25-30 (1997);
196	Gault <i>et al.</i> , "Contig construction across the 15q14 schizophrenia linkage region and candidate gene characterization of the partially duplicated $\alpha 7$ nicotinic receptor," <i>Am. J. Human Genet.</i> 63: A249 (1998);
197	Leonard <i>et al.</i> , "Additional evidence for a chromosome 15 locus in schizophrenia: Analysis of affected sibpairs from the NMH genetics initiative," <i>Am. J. Human Genet.</i> 63: A297 (1998);
198	Zetterström <i>et al.</i> , "Polymorphisms at the Calcitonin/CGRP- α Gene Locus: Investigation of Possible Associations with Neurological or Psychiatric Disease," <i>Abstracts, Society for Neuroscience</i> , 28th Annual Meeting, November 7-12 (1998);
199	Drebing <i>et al.</i> , "Expression of the Human $\alpha 7$ Neuronal Nicotinic Acetylcholine Receptor and a Partial Gene Duplication," <i>Abstracts, Society for Neuroscience</i> , 28th Annual Meeting, November 7-12 (1998);
200	Leonard <i>et al.</i> , "Genomic Organization and Partial Duplication of the Human $\alpha 7$ Neuronal Nicotinic Acetylcholine Receptor Subunit Gene," <i>Abstracts, Society for Neuroscience</i> , 28th Annual Meeting, November 7-12 (1998);
201	Dudek <i>et al.</i> , "Expression in Human Brain of Novel Exons Associated with a Partial Duplication of the $\alpha 7$ Neuronal Nicotinic Receptor," <i>Abstracts, Society for Neuroscience</i> , 28th Annual Meeting, November 7-12 (1998);
202	Breese <i>et al.</i> , "Abnormal Regulation of the High Affinity Nicotinic Receptors in Schizophrenia," <i>Abstracts, Society for Neuroscience</i> , 28th Annual Meeting, November 7-12 (1998);
203	Lee <i>et al.</i> , "The Effect of Nicotine and Haloperidol on High Affinity Nicotinic Receptors and Dopamine D2 Receptors in the Rat Brain," <i>Abstracts, Society for Neuroscience</i> , 28th Annual Meeting, November 7-12 (1998);
204	Adler <i>et al.</i> , "Schizophrenia, Sensory Gating, and Nicotinic Receptors," <i>Schizophrenia Bulletin</i> 24: 189-202 (1998);
205	Leonard <i>et al.</i> , "Further Investigation of a Chromosome 15 Locus in Schizophrenia: Analysis of Affected Sibpairs From the NIMH Genetics Initiative," <i>Am. J. Med. Genet.</i> 81: 308-312 (1998)
206	Gault <i>et al.</i> , "Genomic Organization and Partial Duplication of the Human $\alpha 7$ Neuronal Nicotinic Acetylcholine Receptor Gene (CHRNA7), <i>Genomics</i> 52: 173-185 (1998)

Examiner:

P. Hayes

Date Considered:

5/19/04

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.